

DEHOCR01

LOCATION: At upper limits, adjacent to Pocono Farms East.

Latitude 41° 09' 50.80"

Longitude -75° 20' 30.90"

FIELD CHEMISTRY:

SITE ID	SAMPLE	TEMP	SpC	DO	pH	ORP	DO	COND	TDS
	DATE	C	mScm	mg/l	su	mV	% sat.	mS/cm	mg/l
DEHOCR01	4/23/03	7.35	59	10.39	6.91	264	86.40	39	38
DEHOCR01	7/28/03	15.70	61	9.43	7.04	261	95.00	50	40
DEHOCR01	8/13/03	15.56	50	9.76	6.81	363	98.00	41	32
DEHOCR01	9/21/03	12.73	47	8.93	6.76	351	84.20	36	30
DEHOCR01	10/13/03	11.16	50	10.52	7.87	319	95.80	36	32
wshed min.		0.01	29	5.42	5.47	46	57.70	1	19
wshed max.		26.25	548	14.37	8.99	561	113.10	388	356
wshed avg.		10.04	146	10.97	7.50	304	96.14	104	95

Temperatures that exceed Specific Water Quality Criteria in Chapter 93 of Title 25 of the PA Code are shown in red. SpC is specific conductance. DO is dissolved oxygen. ORP is oxidation reduction potential. COND is conductivity. TDS is total dissolved solids. Refer to Sampling and Analysis Plan under Phase I study results for quality assurance/quality control information.

LABORATORY DATA:

SITE ID	SAMPLE DATE	pH	NITRATE	NITRITE	TOTAL SUPSENDED	TOTAL PHOSPHORUS	FECAL COLIFORM
		su	mg/l	mg/l	SOLIDS mg/l	mg/l	CFU/100ml
DEHOCR01	8/13/03	6.37	<0.1	<0.005	<1.0	0.03	7
Wshed min		5.47	0.10	0.005	1.0	0.01	0
Wshed max		8.19	1.51	0.050	13.0	0.90	5700
Wshed avg		6.85	0.50	0.019	2.7	0.11	

If the number of sample results where the analytical parameter was not detected exceeded 20% of the sample pool, they were not included in the calculated watershed average. If the number of non-detect samples was less than 20% of the sample pool, ½ of the detection limit was used to represent those samples in the calculated watershed average. Refer to Sampling and Analysis Plan under Phase I of study results for quality assurance/quality control information.

BENTHIC MACROINVERTEBRATES:

This site was added through the generosity of the Monroe County Planning Commission in 2003 for the first time. The score of 31 was considered “Optimal” and the site has not been resurveyed.

The range 35 - 29 is considered optimal. The range 28 - 14 is the slightly to moderately impaired category, and any site with a total score of less than 14 is considered severely impaired.

HABITAT ANALYSIS 2003

DEHOCR01	214	Optimal	Greater than 50% mix of boulder, cobble, submerged logs or other stable habitat. Well developed riffle and run. Occurrence of riffles relatively frequent.
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MACROINVERTEBRATE IDENTIFICATIONS

2003 MONROE COUNTY WATER QUALITY STUDY

SITE ID: DEHOCR01

Insecta		Philopotamidae		Simuliidae	5
Ephemeroptera		Polycentropodidae		Tabanidae	
Baetidae		Psychomyiidae		Dixidae	
Baetiscidae	37	Beraeidae		Collembola	
Caenidae		Brachycentridae	2	Poduridae	
Ephemerellidae	4	Lepidostomatidae		Nemertea	
Ephemeridae		Helicopsychidae		Nematoda	
Heptageniidae	11	Leptoceridae		Nematomorpha	
Leptophlebiidae		Limnephilidae		Annelida	
Metretopodidae		Molannidae		Hirudinea	
Neoephemeridae		Odontoceridae		Oligochaeta	
Oligoneuriidae		Phryganeidae		Lumbriculida	
Polymitarcyidae		Sericostomatidae		Lumbriculidae	
Potamanthidae		Uenoidae	3	Tubificida	
Siphonuridae		Glossosomatidae		Platyhelminthes	
Tricorythidae		Hydroptilidae	56	Turbellaria	
Odonata		Rhyacophilidae	4	Planariidae	
Aeshnidae		Lepidoptera		Mollusca	
Cordulegastridae		Pyralidae		Bivalva	
Corduliidae		Coleoptera		Unionidae	
Gomphidae	1	Dytiscidae		Sphaeriidae	2
Libellulidae		Gyrinidae		Cyrenidae	
Macromiidae		Haliplidae		Corbiculidae	
Calopterygidae		Noteridae		Gastropoda	
Coenagrionidae		Elmidae		Ancylidae	
Lestidae		Hydraenidae		Physidae	
Plecoptera		Hydrophilidae		Planorbidae	
Capniidae		Limnichidae		Bulimidae	
Chloroperlidae	14	Psephenidae		Limnaeidae	
Leuctridae	7	Ptilodactylidae		Crustacea	
Nemouridae		Megaloptera		Amphipoda	
Peltoperlidae	31	Corydalidae		Gammaridae	
Perlidae		Sialidae		Talitridae	
Perlodidae	5	Neuroptera		Isopoda	
Pteronarcyidae	2	Sisyridae		Asellidae	
Taeniopterygidae		Diptera		Decapoda	
Hemiptera		Ephydriidae		Cambaridae	
Belostomatidae		Athericidae		Arachnidia	
Corixidae		Tipulidae	1	Acari	
Gerridae		Empididae		Hydrachnidia	
Mesoveliidae		Blephariceridae			

Notonectidae		Ceratopogonidae		
Saldidae		Chaoboridae		
Veliidae		Chironomidae	39	
Trichoptera		Culicidae		
Hydropsychidae	9	Muscidae		

Pebble Count (Cross Section)

DEHOCR01

Material	Size Range (mm)		Particle Count	Cumulative Percent
silt/clay	0	0.062	0	0%
very fine sand	0.062	0.13	0	0%
fine sand	0.13	0.25	0	0%
medium sand	0.25	0.5	0	0%
coarse sand	0.5	1	0	0%
very coarse sand	1	2	1	1%
very fine gravel	2	4	2	3%
fine gravel	4	6	2	5%
fine gravel	6	8	1	6%
medium gravel	8	11	3	9%
medium gravel	11	16	4	13%
coarse gravel	16	22	4	17%
coarse gravel	22	32	6	23%
very coarse gravel	32	45	12	35%
very coarse gravel	45	64	4	39%
small cobble	64	90	16	55%
medium cobble	90	128	18	73%
large cobble	128	180	11	84%
very large cobble	180	256	11	95%
small boulder	256	362	2	97%
small boulder	362	512	1	98%
medium boulder	512	1024	0	98%
large - very large boulder	1024	2048	2	100%
bedrock	2048	4096	0	100%
Total Particle Count:			100	

